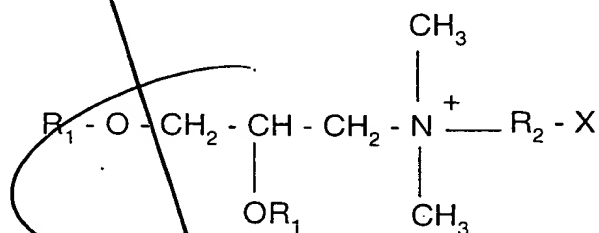


We Claim
~~CLAIMS~~

1. Immunogenic preparation or vaccine comprising,
5 on the one hand, a plasmid encoding and expressing a gene selected from the group consisting of ORF1 of PCV-2, ORF2 of PCV-2, ORF1 of PCV-1 and ORF2 of PCV-1, and, on the other hand, an element capable of increasing the immune response directed against the
10 product of expression of the gene.

2. Immunogenic preparation or vaccine according to Claim 1, characterized in that the element capable of increasing the immune response comprises as adjuvant a cationic lipid of formula
15



in which R₁ is a saturated or unsaturated linear aliphatic radical having from 12 to 18 carbon atoms, R₂ is another aliphatic radical comprising from 2 to 3
20 carbon atoms, andt X is an hydroxyle ou amine group.

3. Immunogenic preparation or vaccine according to Claim 2, characterized in that the cationic lipid is DMRIE.

4. Immunogenic preparation or vaccine according to
25 Claim 3, characterized in that the DMRIE is coupled to a neutral lipid.

5. Immunogenic preparation or vaccine according to Claim 4, characterized in that the DMRIE is coupled to DOPE.

30 6. Immunogenic preparation or vaccine according to Claim 1, characterized in that the element capable of increasing the immune response comprises a carbomer as adjuvant.

7. Immunogenic preparation or vaccine according to Claim 1, characterized in that the element capable of increasing the immune response comprises a porcine cytokine.

5 8. Immunogenic preparation or vaccine according to Claim 7, characterized in that the porcine cytokine is GM-CSF.

9. Immunogenic preparation or vaccine according to Claim 7 ~~or 8~~, characterized in that it comprises a
10 plasmid encoding and expressing the porcine cytokine.

10. Immunogenic preparation or vaccine according to Claim 1, characterized in that the element capable of increasing the immune response comprises a porcine cytokine and a compound selected from the group
15 comprising DMRIE, DMRIE/DOPE and carbomer, as adjuvant.

11. Immunogenic preparation or vaccine according to ~~any one of Claims 1 to 10~~, characterized in that it comprises a plasmid encoding and expressing another porcine immunogen.

ADD C4

add
E1